

Transportation Active Safety Institute

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Abstract

Since its founding in February 2006, the mission of the Transportation Active Safety Institute (TASI) has been to advance the use of active safety systems to reduce vehicle crashes and save lives. TASI was one of 10 centers awarded IUPUI Signature Center funding in January, 2008. With core faculty drawn from ten departments representing eight schools, the Transportation Active Safety Institute (TASI) is a university-wide interdisciplinary center for advanced automotive-safety research and development on the IUPUI campus. Partnership with industry, government, and non-profit agencies ensures that university research activities complement existing technologies and address existing and future needs. TASI aims to provide a neutral forum for pre-competitive discussion and development of standards and test methodologies for establishing objective benefits of active-safety systems.

TASI has established a driving simulator laboratory for research into driver behavior and for testing active-safety system performance. The state-of-the-art DriveSafety DS-600c Driving Simulator is providing a flexible and realistic driving environment for industry, government, and internally sponsored research. This reconfigurable platform allows TASI to test various sensors and driver interfaces, in order to determine effective and convenient solutions to challenges in enhancing safety.

TASI held its third workshop, the International Workshop on Research in Active Safety Technology, August 10-11, 2009, in Indianapolis and is currently planning an international workshop on human factors for August 2010. TASI has established an active dialog with other vehicle safety centers around the world through our Global Academic Network for Active Safety.